

Table 1

	etch rate (Å/min)									selection ratio				
	W				TaN				SiO ₂				W/TaN	
	AVE	p.n.u	AVE	p.n.u	AVE	p.n.u	AVE	p.n.u	AVE	p.n.u	AVE	p.n.u	AVE	p.n.u
condition 1	4822	8.2%	1015	8.0%	301	7.5%	4.77	14.6%						

	ICP	Bias	Press	SF ₆	CF ₄	BCl ₃	Cl ₂	O ₂
	W	W	Pa	sccm	sccm	sccm	sccm	sccm
	700	4	2.0	24			12	24

	confirmation of reproducibility								
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	5082	7.2%	102	30.4%	64	10.9%	50.91	27.3%	
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※1 no step at the stage of etching for 15 seconds (=not etched)

no deposited metal 8000 Å left at the stage of etching for 50 seconds

※2 no deposited metal 8000 Å left at the stage of etching for 40 seconds